# Supplemental Notice of Allowability

Application No.	Applicant(s)
10/583,358	HASHIMOTO ET AL.
Examiner	Art Unit
BRIAN CHEW	2195

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TI MINUS PATE AND THE PARENTS OF THE		
The MAILING DATE of this communication appears of All claims being allowable, PROSECUTION ON THE MERITS IS (OR R herewith (or previously mailed), a Notice of Allowance (PTOL-85) or oth NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS of the Office or upon petition by the applicant. See 37 CFR 1.313 and N	EMAINS) CLOSED in this application. If not included er appropriate communication will be mailed in due course. THIS  This application is subject to withdrawal from issue at the initiative	
1. This communication is responsive to <u>Allowability Notice mailed 1.</u>	<u>6 March 2011 and interview on 4 May 2011</u> .	
2. X The allowed claim(s) is/are 14, 15, 17, 18, 20, 21, 22 and 23, now	v renumbered 1-8.	
3. Acknowledgment is made of a claim for foreign priority under 35	5 U.S.C. § 119(a)-(d) or (f).	
a) □All b) □ Some*c) □ None of the:		
<ol> <li>Certified copies of the priority documents have been</li> </ol>	received.	
2. Certified copies of the priority documents have been received in Application No		
3. 🗌 Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this noted below. Failure to timely comply will result in ABANDONMENT of THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. NINFORMAL PATENT APPLICATION (PTO-152) which gives reasonable.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be so	ubmitted.	
(a) I including changes required by the Notice of Draftsperson's P	atent Drawing Review ( PTO-948) attached	
1) Thereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amer Paper No./Mail Date	ndment / Comment or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.84(c)) each sheet. Replacement sheet(s) should be labeled as such in the hea	should be written on the drawings in the front (not the back) of der according to 37 CFR 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary (PTO-413), Paper No./Mail Date <u>20110524</u> .	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendment/Comment	
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8.   Examiner's Statement of Reasons for Allowance	
	9. Other	
/B. C./	/Meng-Ai An/	
Examiner, Art Unit 2195	Supervisory Patent Examiner, Art Unit 2195	

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### SUPPLEMENTAL EXAMINER AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with W. Keith Robinson (Reg. No. 59,396) on 4 May 2011.
- 3. This listing of claims will replace all prior versions and listings of claims in the application:
- 1-13. (Canceled)
- 14. (Currently Amended) A server/client system in which a plurality of servers and a plurality of clients are connected through a network, and the servers execute a process based on a process request from the clients and transmit a process result to the clients, wherein

at least one of the servers includes

a process information receiving unit configured to receive information on the process from the clients through the network;

a determining unit configured to determine a server to execute the process from among the servers based on the information on the process; and

a server information transmitting unit configured to transmit information on the determined server to the clients, and

each of the clients includes

a server information receiving unit configured to receive the information on the determined server; and

a process request transmitting unit configured to transmit the process request to the determined server,

wherein the determining unit includes

a first calculating unit configured to calculate, for each of the servers, a first distance from an estimation point indicating an estimated consumption to an ideal consumption line, the first distance being a normal that connects the estimation point and the ideal consumption line, the estimated consumption obtained by adding an amount of resource to be consumed by execution of the process to a point indicating an amount of resource that has been consumed by a current resource consumption for each of the servers, the ideal consumption line being a straight line that connects an origin point and a point indicating a maximum resource capacity for each of the servers expressed in a space having parameters of resource as axes; and

a second distance calculating unit configured to calculate, for each of the servers, a second distance from the estimation point to the origin point in the space, and

the determining unit is configured to determine the server based on at least one of the first distance and the second distance.

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15. (Previously Presented) The server/client system according to claim 14, wherein the parameters include at least one of a load amount of a central processing unit, a load amount of a system memory, a load amount of a graphic processing unit, a load amount of a video memory, and a load amount of a network interface card.

## 16. (Canceled)

17. (Currently Amended) load distribution device used in a server/client system in which a plurality of servers and a plurality of clients are connected through a network, and the servers execute a process based on a process request from the clients and transmit a process result to the clients, comprising:

a processor;

a process information receiving unit configured to receive information on the process from the clients through the network;

a determining unit configured to determine a server to execute the process from among the servers based on the information on the process; and

a server information transmitting unit configured to transmit information on the determined server to the clients,

wherein the determining unit includes

a first calculating unit configured to calculate, for each of the servers, a first distance from an estimation point indicating an estimated consumption to an ideal consumption line, the first distance being a normal that connects the estimation point

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and the ideal consumption line, the estimated consumption obtained by adding an amount of resource to be consumed by execution of the process to a point indicating a current resource consumption for each of the servers, the ideal consumption line the first distance being a normal that connects the estimation point and the ideal consumption line being a straight line that connects an origin point and a point indicating a maximum resource capacity for each of the servers expressed in a space having parameters of resource as axes; and

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a second distance calculating unit configured to calculate, for each of the servers, a second distance from the estimation point to the origin point in the space, and the determining unit is configured to determine the server based on at least one of the first distance and the second distance.

- 18. (Previously Presented) The load distribution device according to claim 17, the parameters include at least one of a load amount of a central processing unit, a load amount of a system memory, a load amount of a graphic processing unit, a load amount of a video memory, and a load amount of a network interface card.
- 19. (Canceled)
- 20. (Currently Amended) A load distribution method used in a server/client system in which a plurality of servers and a plurality of clients are connected through a network,

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and the servers execute a process based on a process request from the clients and transmit a process result to the clients, comprising:

receiving information on the process from the clients through the network;

determining a server to execute the process from among the servers based on the information on the process; and

transmitting the process request to the determined server, wherein the determining includes

calculating, for each of the servers, a first distance from an estimation point indicating an estimated consumption to an ideal consumption line, the first distance being a normal that connects the estimation point and the ideal consumption line, the estimated consumption obtained by adding an amount of resource that has been consumed by execution of the process to a point indicating a current resource consumption for each of the servers, the ideal consumption line being a straight line that connects an origin point and a point indicating a maximum resource capacity for each of the servers expressed in a space having parameters of resource as axes; and

calculating, for each of the servers, a second distance from the estimation point to the origin point, in the space, and

the determining includes determining the server based on at least one of the first distance and the second distance.

21. (Previously Presented) The load distribution method according to claim 20, wherein the parameters include at least one of a load amount of a central processing

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unit, a load amount of a system memory, a load amount of a graphic processing unit, a load amount of a video memory, and a load amount of a network interface card.

## 22. (Canceled)

23. (Currently Amended) A computer-readable recording medium that stores therein a load distribution program for distributing loads of servers in a server/client system in which a plurality of servers and a plurality of clients are connected through a network, and the servers execute a process based on a process request from the clients and transmit a process result to the clients, the load distribution program making the servers execute:

receiving information on the process from the clients through the network;

determining a server to execute the process from among the servers based on the information on the process; and

transmitting the process request from the clients to the determined server, wherein the determining includes

calculating, for each of the servers, a first distance from an estimation point indicating an estimated consumption to an ideal consumption line, the first distance being a normal that connects the estimation point and the ideal consumption line, the estimated consumption obtained by adding an amount of resource to be consumed by execution of the process to a point indicating a current resource consumption for each of the servers, the ideal consumption line being a straight line that connects an origin

point and a point indicating a maximum resource capacity for each of the servers expressed in a space having parameters of resource as axes; and

calculating, for each of the servers, a second distance from the estimation point to the origin point, in the space, and

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the determining includes determining the server based on at least one of the first distance and the second distance.

24. (Previously Presented) The computer-readable recording medium according to claim 23, wherein the parameters include at least one of a load amount of a central processing unit, a load amount of a system memory, a load amount of a graphic processing unit, a load amount of a video memory, and a load amount of a network interface card.

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN CHEW whose telephone number is (571)270-5571. The examiner can normally be reached on Monday-Thursday, 8:00AM-5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571)272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. C./ Examiner, Art Unit 2195

/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195